**BRUHATH BANGALORE MAHANAGARA PALIKE**
BYTARAYANAPURA DIVISION

**Name of the work: Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division.**

**Second and Final Bill**
**Test Reports**

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CONSULTANTS

No. TC / BBMP / RI / BTY-PMC / 108 / 18 – 19

Date:

To
The Executive Engineer
Bytarayanapura Division ,
Bruhat Bangalore Mahanagara Palike,
Bangalore.

Dear Sir

Sub: **Second and Final Bill for the work Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division..**

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the Second and Final Bill submitted by Sri. M. S. Venkatesh, Bangalore, towards the above said work and arrived at an amount of **Rs. 4998720.51/-( Rupees Forty Nine Lakh Ninety Eight Thousand Seven Hundred Twenty and Paise Fifty One Only**). The work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants
(Nischal M)

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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## Test Report on Cement

| | |
|---|---|
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | Sri. M. S. Venkatesh |
| **Sample ID** | Cement |
| **Date of Sample Tested** | 05.01.2019 |
| **Sample Supplied By** | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 37 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 357 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 3mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 29.00% | 25 % to 35 |

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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## TEST REPORT

| | |
|---|---|
| Clients | BRUHAT BENGALORE MAHANAGARA PALIKE |
| Project | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| Consultants | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| Contractor | Sri. M. S. Venkatesh |

## SPECIFIC GRAVITY AND WATER ABSORPTION

### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| Type of Material | Fine aggregate (River Sand/ M sand) | Proposed Use | PCC |
| Location/Source | At Site/Plant | Date of Sampling | 05.01.2019 |
| Period of Soaking | 24 hours | Date of Testing | 05.01.2019 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 647 | 667 | 672 | |
| B | Weight of oven - dry sample gm. | 635 | 657 | 662 | |
| C | Weight of Pycnometer Filled with water gm | 1285 | 1285 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1693 | 1705 | 1699 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.657 | 2.660 | 2.669 | 2.662 |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 1.890 | 1.522 | 1.511 | 1.641 |

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## TEST REPORT

| | |
|---|---|
| **Clients** | Bruhath Bangalore Mahanagara Palike |
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri. M. S. Venkatesh |
| **Total Weight in gm:** | 3000 |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| **Type of Material** | 40 mm down size | **Proposed Use** | PCC |
| **Sample Location** | At Site/Plant | **Date of Sampling** | 05.01.2019 |
| | | **Date of Testing** | 05.01.2019 |

| IS Sieve Size | Weight Retained in gm | Cum. Weight Retained in gm | Cumulative Weight Retained in % | Cumulative Weight Passing in % | Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size |
|---|---|---|---|---|---|
| 80.00mm | 0 | 0 | 0.00 | 100.00 | 100 |
| 63.00mm | 0 | 0 | 0.00 | 100.00 | - |
| 40.00mm | 100 | 100 | 3.33 | 96.67 | 95-100 |
| 20.00mm | 1350 | 1450 | 48.33 | 51.67 | 30-70 |
| 10.00mm | 967 | 2417 | 80.57 | 19.43 | 10-35 |
| 4.75mm | 440 | 2857 | 95.23 | 4.77 | 0-5 |
| Pan | 143 | 3000 | 100.00 | 0.00 | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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# Test Report on Cement

| | |
|---|---|
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | Sri. M. S. Venkatesh |
| **Sample ID** | Cement |
| **Date of Sample Tested** | 10.01.19 |
| **Sample Supplied By** | Agency |

| Sl.No. | Descriptions | Test Method as per IS | Test Result | Requirements as per IS: 12269-1987 |
|---|---|---|---|---|
| 1 | a) Initial Setting Time | IS-4031 (Part-5) | 35 Minutes | Not Less than 30 Minutes |
| | b) Final Setting Time | IS-4031 (Part-5) | 375 Minutes | Not More than 600 Minutes |
| 2 | Soundness | IS-4031 (Part-3) By the Le-Chatelier method | 4mm | Not More than 10 mm |
| 3 | Standard Consistency | IS-4031 (Part-4) | 27.00% | 25 % to 35 |

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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# TEST REPORT

| | |
|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike |
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **Consultants** | Tejus Consultants, Bangalore |
| **Contractor** | Sri. M. S. Venkatesh |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| **Total Weight:** | **3000** gms | | |
| **Type of Material** | **Fine aggregate (River Sand/ M sand)** | **Proposed Use** | concrete |
| **Sample Location** | At Site/Plant | **Date of Sampling** | 10.01.19 |
| | | **Date of Testing** | 10.01.19 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing (Zone-II) |
|---|---|---|---|---|---|
| **10.00 mm** | 0 | 0 | 0 | 100.00 | **100** |
| **4.75 mm** | 215 | 215 | 7.17 | 92.83 | **90 - 100** |
| **2.36 mm** | 307 | 522 | 17.40 | 82.60 | **75 - 100** |
| **1.18 mm** | 423 | 945 | 31.50 | 68.50 | **55 - 90** |
| **0.600 mm** | 487 | 1432 | 47.73 | 52.27 | **35 -59** |
| **0.300 mm** | 715 | 2147 | 71.57 | 28.43 | **8-30** |
| **0.150 mm** | 640 | 2787 | 92.90 | 7.10 | **0 - 10** |
| **Pan** | 213 | 3000 | | | - |
| | | | | | |

**Remarks :** Satisfactory / Not Satisfactory

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## TEST REPORT

| | |
|---|---|
| **Clients** | BRUHAT BENGALORE MAHANAGARA PALIKE |
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri. M. S. Venkatesh |

## SPECIFIC GRAVITY AND WATER ABSORPTION

### FINE AGGREGATE (IS-2386-PART-3)

| | | | |
|---|---|---|---|
| **Type of Material** | Fine aggregate (River Sand/ M sand) | **Proposed Use** | concrete |
| **Location/Source** | At Site/Plant | **Date of Sampling** | 10.01.19 |
| **Period of Soaking** | 24 hours | **Date of Testing** | 10.01.19 |

| Sl. No. | Test Property | TRIAL - 1 | TRIAL - 2 | TRIAL - 3 | |
|---|---|---|---|---|---|
| A | Weight of sturated surface dry sample gm. | 650 | 675 | 660 | |
| B | Weight of oven - dry sample gm. | 645 | 665 | 655 | |
| C | Weight of Pycnometer Filled with water gm | 1275 | 1275 | 1275 | |
| D | Weight of Pycnometer + sample + water gm | 1682 | 1700 | 1689 | |
| E | Bulk specific gravity $\frac{B}{(C+A-D)}$ | 2.654 | 2.660 | 2.663 | **2.659** |
| G | Absorption (%) $\frac{(A-B)*100}{B}$ | 0.775 | 1.504 | 0.763 | **1.014** |

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## TEST REPORT

| | |
|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike |
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **Consultants** | TEJUS CONSULTANTS Basaveshwar Nagar Bangalore |
| **Contractor** | Sri. M. S. Venkatesh |
| **Total Weight:** | 10000 gms |

## SIEVE ANALYSIS

| | | | |
|---|---|---|---|
| **Type of Material** | 20 mm down size | **Proposed Use** | Concrete |
| **Sample Location** | Plant/At site | **Date of Sampling** | 10.01.19 |
| | | **Date of Testing** | 10.01.19 |

| IS Sieve Size | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 40.00 mm | 0 | 0 | 0 | 100 | 100 |
| 20.00 mm | 265 | 265 | 2.65 | 97.35 | 95 - 100 |
| 10.00 mm | 4845 | 5110 | 51.10 | 48.90 | 25 - 55 |
| 4.75 mm | 4235 | 9345 | 93.45 | 6.55 | 0 - 10 |
| Pan | 655 | 10000 | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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## TEST REPORT

| | | |
|---|---|---|
| **Clients** | Bruhat Bangalore Mahanagara Palike | |
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. | |
| **Consultants** | TEJUS CONSULTANTS | |
| **Contractor** | Sri. M. S. Venkatesh | |
| **Total Weight:** | 10000 | gms |

## SIEVE ANALYSIS

| | | | | |
|---|---|---|---|---|
| **Type of Material** | **12.5 mm down size** | **Proposed Use** | CONCRETE | |
| **Sample Location** | At Site/Plant | **Date of Sampling** | 10.01.19 | |
| | | **Date of Testing** | 10.01.19 | |

| IS Sieve Size (in mm) | Weight Retained | Cum. Weight Retained | Cum. % Retained | Cum. % Passing | Spec. Limit (%) Passing |
|---|---|---|---|---|---|
| 20.0 | 0 | 0 | 0 | 100 | 100 |
| 12.5 | 530 | 530 | 5.30 | 94.70 | 90-100 |
| 10.0 | 4680 | 5210 | 52.10 | 47.90 | 40-85 |
| 4.75 | 4600 | 9810 | 98.10 | 1.90 | 0-10 |
| Pan | 190 | 10000 | | | |
| | | | | | |

**Remarks :** ✓ Satisfactory / Not Satisfactory

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## TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | Sri. M. S. Venkatesh |
| **Grade of concrete:** | M15 |
| **Size of cube:** | 150x150x150 mm |
| **Reference IS code:** | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 10.01.2019 | 17.01.2019 | 7 days | 8.120 | 22500 | 198 | 8.80 | 9.01 |
| 2 | 10.01.2019 | 17.01.2019 | 7 days | 8.130 | 22500 | 200 | 8.89 | |
| 3 | 10.01.2019 | 17.01.2019 | 7 days | 8.140 | 22500 | 210 | 9.33 | |

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# TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

| | |
|---|---|
| **Project** | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division |
| **Client** | Bruhat Bangalore Mahanagar Palike |
| **Consultant** | TEJUS CONSULTANTS |
| **Contractor** | Sri. M. S. Venkatesh |
| **Grade of concrete:** | M15 |
| **Size of cube:** | 150x150x150 mm |
| **Reference IS code:** | IS:516-1959 |

| Sl.No. | Date of Casting | Date of testing | Age of Test | Weight of Cube | Area of Cube | Failure load | Compressive strength | Avg. Compressive strength |
|---|---|---|---|---|---|---|---|---|
| | | | | Kg | $mm^2$ | KN | $N/mm^2$ | $N/mm^2$ |
| 1 | 10.01.2019 | 07.02.2019 | 28 days | 8.130 | 22500 | 350 | 15.56 | 15.26 |
| 2 | 10.01.2019 | 07.02.2019 | 28 days | 8.138 | 22500 | 355 | 15.78 | |
| 3 | 10.01.2019 | 07.02.2019 | 28 days | 8.146 | 22500 | 325 | 14.44 | |

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| PRECAST SLAB (CORE) TEST REPORT | | |
|---|---|---|
| **Client** | : | Bruhat Bangalore Mahanagara Palike |
| **Contractor** | : | Sri. M. S. Venkatesh |
| **Name of Work** | : | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| **No.of Sample Tested** | : | 3 |
| **Date of Testing** | : | 14.01.2019 |
| **Techinical Reference** | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| **Grade of Concrete** | : | $M_{20}$. 250mm Thick |

| Sl. No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 100.00 | 180.00 | 3.345 | 2366.10 | 1.80 | 0.960 | 159.00 | 20.24 | 21.86 | 20.99 | 26.24 |
| 2 | 100.00 | 180.00 | 3.475 | 2458.06 | 1.80 | 0.960 | 159.23 | 20.27 | 21.90 | 21.02 | 26.27 |
| 3 | 100.00 | 180.00 | 3.520 | 2489.89 | 1.80 | 0.960 | 159.65 | 20.33 | 21.95 | 21.08 | 26.34 |

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Consultant's Representative

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## PRECAST SLAB (CORE) TEST REPORT

| | | |
|---|---|---|
| Client | : | Bruhat Bangalore Mahanagara Palike |
| Contractor | : | Sri. M. S. Venkatesh |
| Name of Work | : | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| No.of Sample Tested | : | 3 |
| Date of Testing | : | 14.01.19 |
| Technical Reference | : | IS:516-1959 (Reaffirmed 1999), SP-24:1983. |
| Grade of Concrete | : | $M_{20}$, 100mm thick |

| L No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50 | 80 | 0.67 | 4265.352 | 1.60 | 0.96 | 37.20 | 18.946 | 20.461 | 19.643 | 24.554 |
| 2 | 50 | 80 | 0.65 | 4138.029 | 1.60 | 0.96 | 38.50 | 19.608 | 21.177 | 20.329 | 25.412 |
| 3 | 50 | 80 | 0.66 | 4201.69 | 1.60 | 0.96 | 36.20 | 18.437 | 19.911 | 19.115 | 23.894 |

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20.01.19

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

Authorised Signatory

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CONSULTANTS

## PRECAST SLAB (CORE) TEST REPORT

| | | |
|---|---|---|
| Client | : | Bruhat Bangalore Mahanagara Palike |
| Contractor | : | Sri. M. S. Venkatesh |
| Name of Work | : | Improvements to Roads and Drains at Thanisandra Village and surrounding areas in ward No 06 - Thanisandra, Byatarayanapura Sub Division. |
| No.of Sample Tested | : | 3 |
| Date of Testing | : | 14.01.19 |
| Technical Reference | : | **IS:516-1959 (Reaffirmed 1999), SP-24:1983.** |
| Grade of Concrete | : | $M_{20}$ - 100mm thick |

| Sl.No. | Dia of Core D (mm) | Height of Core H (mm) | Core Wt (Kg) | Density of Core (kg / $m^3$) | H / D | Correction factor (Based on H/D) | Failure Load (kN) | Core Strength ( $N/mm^2$) | Correction Factor for the Dia. (Strength of the Core x 1.08) | Corrected Cylinder Compressive Strength ($N/mm^2$) | Equivalent Cube Compressive Strength ($N/mm^2$) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50 | 80 | 0.68 | 4329.014 | 1.60 | 0.96 | 37.00 | 18.844 | 20.351 | 19.537 | 24.422 |
| 2 | 50 | 80 | 0.63 | 4010.705 | 1.60 | 0.96 | 39.00 | 19.863 | 21.452 | 20.593 | 25.742 |
| 3 | 50 | 80 | 0.64 | 4074.367 | 1.60 | 0.96 | 36.00 | 18.335 | 19.801 | 19.009 | 23.762 |

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory and Site
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ

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